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Date: December 14, 2005

Total Pages: 12 (including cover)

Subject: Application 10,672,416


Att: Commissioner for Patents

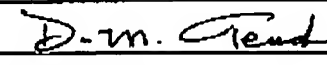
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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/672,416	RECEIVED CENTRAL FAX CENTER DEC 14 2005
	Filing Date	09/26/2003	
	First Named Inventor	TENCH, D. Morgan	
	Art Unit	1753	
	Examiner Name	VAN, Luan V.	
Total Number of Pages in This Submission	11	Attorney Docket Number	03RSC004

ENCLOSURES (Check all that apply)		
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Tench and White

Examiner: VAN, Luan V.

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Serial No. 10/672,416

Art Unit: 1753

DEC 14 2005

Filing Date: 09/26/2003

Docket No. 03RSC004

Title: Improved Copper Bath for Electroplating Fine Circuitry on Semiconductor Chips

Subject: Non-Final Office Action of 14 September 2005

Addressee: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

10 December 2005

Sir:

In response to the subject Office Action dated 14 September 2005, please accept the following Remarks and Conclusions. In consideration of the arguments presented, reconsideration of this application and allowance of all of the claims, as amended, are respectfully requested.

REMARKS**Claim Rejections - 35 USC §102**

Claims 1-5, 8, 10-13, 16, and 18-20 were rejected under 35 U.S.C. 102(b) as being anticipated by Wells et al. (U.S. Patent 3,161,575). The inventors acknowledge that the principal differences between the copper pyrophosphate bath of Wells and that of the present invention are the intended use of the bath and the concentration of the 2,5-dimercapto-1,3,4-thiadiazole (DMTD) organic additive. Wells does not specify a use for the plating bath, and specifies (Claims 1 and 2) a general concentration range of 0.5 ppm (which corresponds to 4 μM) to saturation for a list of five organic additives. The list includes DMTD but no specific